

Re-Write of 150/5300-13, Airport Design

Scope, Schedule and Significant Issues

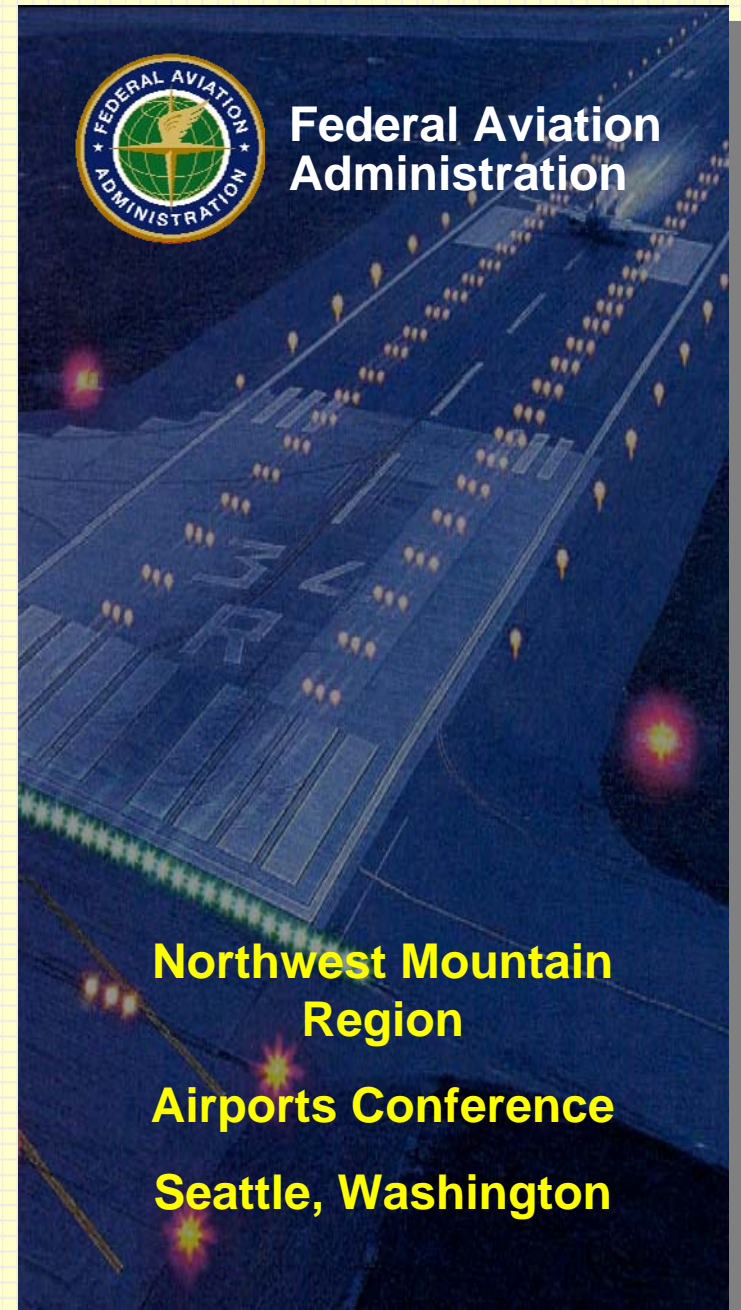
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Outline

- **Scope and Schedule**
- **Standard Design Standards**
- **Runway Requirements Matrix**
- **Other Issues**
 - Planning and AIP Funding
 - Design Aircraft
 - Environmental
 - Taxiway Design/Layout



Scope and Schedule

- **Complete Re-Write and Reorganization**
 - Last major re-write – 1989
- **Define Basic Concepts**
 - Lay groundwork for future revisions
- **Preliminary Comments**
 - Project Notice, October, 2004
 - Over 300 comments received
- **Regional/HQ Team Formed January, 2006**
- **Informal Industry Coordination**
- **Outline Due, August, 2006**
- **Final Draft, 2007**



Standard Design Standards

- **What are the goals and objectives?**
 - Safety is highest priority
 - Aviation demand
 - Environmental protection
 - Economic viability
- **How are standards used by FAA?**
 - Federal funding
 - ALP development
 - Federal grant obligations
 - CFR Part 139
 - Airspace evaluation



Standard Design Standards: What is a Standard?

- **Must relate to FAA goals**
 - Safety
 - Utility
 - Efficiency
- **Do not regulate aircraft operations**
- **Must have rationale and justification for each**
- **Modification of Standards**
 - Standard procedures and understanding
 - Must maintain an acceptable level of safety
 - Usually require special procedures or precautions

Runway Requirements Matrix

- **Drivers**

- New technologies
- TERPS changes

- **Design Process**

- Preliminary planning
 - Runway length and orientation
 - Visibility needs
- Select design aircraft
- Apply most demanding approach requirement
- Determine runway design requirements

Runway Requirements Matrix

Aircraft Reference Code (ARC)

	A-I	B-II	C-III	D-IV+
Visibility Categories	Visual			
	Non-Precision			
	Precision			
	CAT II/III			

Runway Design Requirements

Basic Requirements

- Runway Width
- Runway – Taxiway Separation
- OFZ
- RSA

Approach Requirements (end specific)

- Approach surface
- Inner/outer OFZ
- RPZ
- Approach Lights

Other Issues

- **Planning and Funding**

- Master planning
- Sponsor obligations and ALP approval
- 500 annual itinerant operations
- Eligibility and funding priority
- Environmental justification

- **Design Aircraft**

- Wingspan
- Tail Height
- Weight
- Gear Configuration
- EMAS
- Approach Speed

- **Taxiway design**

- Minimize potential for runway incursions

Next Steps

- **Team Meetings:**
 - April
 - June
- **Outreach**
 - FAA Northwest Mountain Airport Conference (Today!)
 - ACC Summer Workshop

Thank You!!